Request to Archive
With The National Centers for Environmental Information
For Thermosalinograph sea surface temperature and salinity data collected aboard various vessels and quality controlled by the Atlantic Oceanographic and Meteorological Laboratory Provided by NOAA/AOML/PHOD

2016-08-02

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Gustavo Goni

NOAA/AOML/PHOD

305-361-4339

Gustavo.Goni@noaa.gov

2. Name the organization or group responsible for creating the dataset.

NOAA/AOML/PHOD

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The AOML TSG data being submitted to NOAA/NCEI contain information about temperature and salinity obtained with the use of thermosalinographs (TSG) installed in ships of the NOAA fleet and other cargo and cruise ships. The data is transmitted to AOML/NOAA in real-time and submitted to a quality control procedure developed at AOML. The data set submitted to NCEI for distribution constitute the complete data set received by AOML with the corresponding flags after the quality control. The time period covered by the Data set is from 20011007 to present. The geospatial coverage of the Data set is worldwide coverage. The measured variables or parameters include conductivity, sea surface salinity, sea surface water temperature (using internal sensor), water temperature (using external sensor, when available) and water temperature (using other auxiliary sensor, when available), latitude, longitude and time. The originator's data have different temporal resolutions from six second point values to 5 minute point values.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2001-10-07

Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2005

7. Who are the expected users of the archived data? How will the archived data be used?

Global Surface Water pCO2 Observing System. PI: Rik Wanninkhof (AOML)

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

No

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

N/A

10. List the input datasets and ancillary information used to produce the data.

Files are served via ftp from service ftp.aoml.noaa.gov in the directory "/phod/pub/bringas/TSG2NODC". Four subdirectories contain data files: "Doc", "RT_Original", "RT_QC_RAW", and "RT_QC_RED". The data sets received by AOML from various platforms have undergone a rigorous scientific quality control process. Gaps in the data only occur when platforms do not report the data to AOML.

11. List web pages and other links that provide information on the data.

http://www.aoml.noaa.gov/phod/tsg/

ftp://ftp.aoml.noaa.gov/phod/pub/bringas/TSG2NODC/

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. The files are in netcdf format. The originator's files contain collection level data to include platform information, contact information, and instrument information. The two quality controlled versions only contain flags for the quality assurance procedure.

13. Indicate the data file format(s).

1. netCDF-4

14. Are the data files compressed?

gzip

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

The files are names as callsign_YYYY_MM_WW.nc.gz.

callsign is the specific call sign of the vessel

YYYY: four digital year

MM: two digital month

WW: week number in the month

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16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

The sample data files can be access at ftp://ftp.aoml.noaa.gov/phod/pub/bringas/TSG2NODC/RT_QC_RAW_nc/

A list of files can be found at

ftp://ftp.aoml.noaa.gov/phod/pub/bringas/TSG2NODC/RT_QC_RAW_nc/md5sum_list.txt

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 10GB

Number of Data Files: 10000

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 10MB per Day

Data File Frequency: 1 per Day

Data Production Start: 2001-10-07

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

The data set is updated in a daily basis, typically twice a day, with the new data available to the Producer.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Miami, FL

System Name: NOAA/AOML/PHOD

System Owner: Gustavo Goni

Additional Information: TSG data

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. User interface to order and stage data for download
2. Direct download links
3. Advanced web services (e.g., THREDDS Catalog Service)

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

The AOML TSG will be part of the NCEI TSG database.

24. Are the data archived at another facility or are there plans to do so? Please explain.

GOSUD. The data was archived at Global Ocean Surface Underway Data (GOSUD).

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

NCEI (formerly NODC) has a SIF with AOML for archiving this dataset back in 2009. Zhankun Wang is the NCEI primary contact person.

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

This project is funded by the NOAA Climate Program Office.

TSG data from the NOAA fleet is obtained in collaboration with Tom Stepka and Tim Salisbury from NOAA/OMAO.

Data from MV Oleander is obtained in collaboration with Jon Hare, Dan Smith and Jack Jossi from NOAA/NMFS.

The products from the MV Explorer are under development in a collaboration between the National Oceanic and Atmospheric Administration (AOML/NOAA) and the Semester At Sea Program.

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

None